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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/624,298	07/22/2003	Minghao (Mary) Zhang	Qantec-06	7809
	7590	06/03/2005	EXAMINER	
SVPA 7394 Wildflower Way Cupertino, CA 95014			NGUYEN, TUYEN T	
			ART UNIT	PAPER NUMBER
			2832	

DATE MAILED: 06/03/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

Office Action Summary

Application No.

10/624,298

Applicant(s)

ZHANG ET AL.

Examiner

TUYEN T. NGUYEN

Art Unit

2832

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 11 March 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-28 is/are pending in the application.
- 4a) Of the above claim(s) 6,9-15,17 and 21-28 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5,7,8,16 and 18-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 12/3/2004.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

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DETAILED ACTION

Election/Restrictions

Applicant's election with traverse of embodiment 8 [figure 4D] in the reply filed on 3/11/05 is acknowledged. The traversal is on the ground(s) that claims 1-5, 7-10 and 16-25 read on the elected species. This is not found persuasive because claims 9-10, 17 and 21-25 do not read on the elected species.

The requirement is still deemed proper and is therefore made FINAL.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 3, 7-8, 16 and 18 are rejected under 35 U.S.C. 102(b) as being anticipated by Mizoguchi et al. [US 5,583,474].

Mizoguchi et al. discloses N integrated transformers [figures 49-50] comprising:
a plurality of conducting stripes [40] formed closely to each other in silicon, each two adjacent stripes of the conducting stripes forming one of the N transformers,
wherein none of the conducting stripes are electrically connected and N is a finite integer greater than or equal to 2.

wherein the conducting stripes are on a layer and wound in parallel into a flat spiral.

Mizoguchi et al. teaches that the conducting stripes can be arranged/connected in various ways to form transformer(s).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. in view of Redilla [US 6,420,952].

Mizoguchi et al. discloses the instant claimed invention except for a conducting shielding.

Redilla discloses a transformer comprising a conductive shielding [1] located between primary and second coils [4, 5].

It would have been obvious to one having ordinary skill in the art at the time the invention was made to provide a conductive shield between the transformers of Mizoguchi et al., as suggested by Redilla, for the purpose of providing shielding between the coils/windings.

Claims 5 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al.

Regarding claim 5, the specific winding direction of the conducting stripes would have been an obvious design consideration for the purpose of controlling the magnetic flux and inductance of the device.

Regarding claims 19-20, the specific use of the transformer(s) would have been an obvious design consideration based on the intended application/environment use.

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Claims 4 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mizoguchi et al. in view of Chamberlayne [US 4,012,703] .

Mizoguchi et al. discloses the instant claimed invention except for the conducting stripes formed of transmission lines.

Chamberlayne discloses an integrated transformer comprising at least one coil formed of transmission lines [figure 5].

It would have been obvious to one having ordinary skilled in the art at the time the invention was made to form the conducting stripes of Mizoguchi et al. from transmission lines, as suggested by Chamberlayne, for the purpose of reducing distortion.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TUYEN T. NGUYEN whose telephone number is 571-272-1996. The examiner can normally be reached on M-F 8:30-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, ELVIN ENAD can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Truyen T. Nguyen